AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

- 1. 44. (Cancelled)
- 45. (Currently Amended) The apparatus as defined in claim 44 wherein An electric arc welding apparatus comprising:
- a welding station;
- a battery for providing a DC battery voltage; and
- a high switching speed converter coupled to said battery for converting said DC battery voltage to a signal conditioned for welding, wherein said high switching speed converter includes a pulse width modulator that at least partially controls said signal conditioned for welding to a welding electrode and a waveform generator that at least partially controls said pulse width modulator, said high switching speed converter creating a series of current pulses that constitute a welding cycle representative of a current waveform, said pulse width modulator controlling a current pulse width of a plurality of said current pulses, wherein said welding station, said battery and said high switching speed converter are movable on a wheeled carriage, and said battery comprises a 48 volt battery pack and provides DC voltage to said high switching speed converter and to said wheeled carriage.
- 46. (Previously Presented) The apparatus as defined in claim 45 wherein said waveform generator drives said pulse width modulator at a frequency of 20 kHz.
- 47. (Currently Amended) The apparatus as defined in claim 46 wherein wherein said battery is supplied with recharging power by an on-board battery charger, said battery charger being operative to be plugged into an external AC power source via an extension cord.
 - 48. 49. (Canceled)
- 50. (Previously Presented) The apparatus as defined in claim 47 wherein said high switching speed converter comprises a DC down chopper and wherein a

freewheeling diode is connected in parallel with said welding electrode and behind a parallel choke of a switching stage of said high speed switching converter.

51. – 57. (Canceled)